ABSTRACT OF DISCLOSURE

A heat-generating device is characterized to determine the relationship between the speed of a DC cooling fan, and the thermal margin of the heat-generating device. Since the speed of DC fans is substantially linear with respect to their input voltage, the speed of the fan may be adjusted within a system to provide the speed necessary for cooling needs. An altitude is input to a converter which uses the characterization of the heat-generating device to determine a fan speed necessary at that altitude to cool the heat-generating device to a temperature within its operating range. The converter then controls the voltage supplied to the DC fan to result in the needed fan speed.

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